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(54) Title: **MONITORING SYSTEM**

(57) Abstract

A sensor array for mounting within a vessel to enable conditions within the vessel to be monitored. An array of sensors is supported on a sheet which in use is mounted within the vessel, the sheet carrying the array of sensors and conductors connecting the sensors to an output through which signals may be transmitted, those signals being representative of conditions to which the sensors are exposed within the vessel. The output may be connected to a first monitoring unit located within the vessel. A second monitoring unit may be located outside the vessel, the first monitoring unit converting the sensor output signals into transmission signals which are transmissible through the vessel wall to the second monitoring unit to enable the second monitoring unit to output data representative of conditions within the vessel.

